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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/753,228	01/08/2004	Kirk W. Wolfgram		5723
75	590 10/15/2004		EXAMINER	
Kirk W. Wolfgram			VALENTI, ANDREA M	
814 Norton Lar Rochester, MN			ART UNIT	PAPER NUMBER
			3643	
			DATE MAILED 10/15/200	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	Ö	
•	10/753,228	WOLFGRAM, KIRK W.	WOLFGRAM, KIRK W.	
Office Action Summary	Examiner	Art Unit		
	Andrea M. Valenti	3643		
The MAILING DATE of this communicate Period for Reply	ion appears on the cover sheet w	ith the correspondence address		
A SHORTENED STATUTORY PERIOD FOR THE MAILING DATE OF THIS COMMUNICA: - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica: - If the period for reply specified above is less than thirty (30) dated in the period for reply is specified above, the maximum statutor: - Failure to reply within the set or extended period for reply will, I any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	TION. **CFR 1.136(a). In no event, however, may a stion. ys, a reply within the statutory minimum of thir y period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	i.	
Status				
1) Responsive to communication(s) filed or	n <u>08 January 2004</u> .			
2a) This action is FINAL . 2b) [2]	☑ This action is non-final.			
3) Since this application is in condition for closed in accordance with the practice under the condition of the condition	•	·		
Disposition of Claims				
4) ☐ Claim(s) 1-14 is/are pending in the appliance of the above claim(s) is/are with some of the above claim(s) is/are with some of the above claim(s) is/are allowed. 5) ☐ Claim(s) 1-14 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction	vithdrawn from consideration.			
Application Papers				
9)☐ The specification is objected to by the Ex	kaminer.			
10) The drawing(s) filed on is/are: a)	·	•		
Applicant may not request that any objection	- · ·			
Replacement drawing sheet(s) including the 11) The oath or declaration is objected to by	· · · · · · · · · · · · · · · · · · ·		l).	
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for the algorithms All blue Some * claim for the algorithms all algorithms algorithms algorithms algorithms algorithms algorith	cuments have been received. cuments have been received in A ne priority documents have been Bureau (PCT Rule 17.2(a)).	Application No received in this National Stage		
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🗆 Intendence	Summary (PTO-413)		
2) Notice of Draftsperson's Patent Drawing Review (PTO-3) Information Disclosure Statement(s) (PTO-1449 or PTO Paper No(s)/Mail Date S. Retest and Tindemat Office.	948) Paper No(s)/Mail Date nformal Patent Application (PTO-152)		

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 8 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 4,114,185 to Gallagher.

Regarding Claims 1 and 8, Gallagher teaches an electric animal deterrent (Col.1 line 10) for use with a power source comprising: a high voltage pulse generator supplied by the power source; a timing mechanism for controlling the output pulse rate of said high voltage pulse generator, a ground terminal connected to the output of said high voltage pulse generator for connection to a ground rod electrically connected to the underlying ground system, and a high voltage output terminal also connected to the output of said high voltage pulse generator for connection to a separate un-insulated electrical conductor placed directly on the ground for the purpose of deterring animals (Gallagher Fig. 1 and admitted prior art page 10 second paragraph of applicant's specification, applicant has not claimed in either independent claim any difference in circuitry).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent No. 6,184,790 to Gerig and U.S. Patent No. 6,519,131 to Beck.

Regarding Claims 1 and 8, Gerig teaches an electric animal deterrent (Gerig Col.1 line 12) for use with a power source (Gerig #28) comprising: a high voltage pulse generator (Gerig #56) supplied by the power source; a timing mechanism (Gerig the AC voltage cycle Col. 4 line 20-25) for controlling the output pulse rate of said high voltage pulse generator, a ground terminal (Gerig #62) connected to the output of said high voltage pulse generator for connection to a ground rod electrically connected to the underlying ground system, and a high voltage output terminal also connected to the output of said high voltage pulse generator for connection to a separate un-insulated electrical conductor (Gerig Fig. 1 #16 and 18).

Gerig is silent on placing the deterrent in contact with the ground for the purpose of deterring animals. However, Beck teaches that it is old and notoriously well-known to place an un-insulated electrical conductor in contact with the ground (Beck Fig. 1 #58). It would have been obvious to one of ordinary skill in the art to modify the teachings of Gerig with the teachings of Beck for the advantage of preventing livestock from escaping when the gate is not properly closed (Beck Col. 1 line 10-15).

Regarding Claims 2 and 9, Gerig as modified teaches the output impedance of the high voltage pulse generator is lower than the impedance of the electrical conductor laying on the ground connected to the high voltage output terminal with reference to the Application/Control Number: 10/753,228

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ground terminal and the underlying ground system in which the ground terminal is electrically connected (Gerig impedance less than 200 Ohms Col. 3 line 39 and Beck 30,000 Ohms for electrical conductor Col. 3 line 15-20).

Regarding Claims 3 and 10, Gerig as modified teaches the output impedance of the high voltage pulse generator is substantially lower than the impedance of an animal making contact with the electrical conductor connected to the high voltage output terminal and the underlying ground system in which the ground terminal is electrically connected (Gerig Col. 3 line 39 200 Ohms is less then applicant's page 6 second paragraph).

Regarding Claims 4 and 11, Gerig as modified inherently teaches the energy delivered to an animal making contact with both the electrical conductor connected to the high voltage output terminal and the underlying ground system is significantly less than the energy delivered to an impedance equal to the output impedance of the high voltage pulse generator (these teachings are inherent because the amount of current deliver is inversely proportional to the impedance; a higher impedance naturally results in a lower energy transfer).

Regarding Claims 5 and 12, Gerig as modified teaches the conductor placed on the ground and connected to the high voltage output terminal is a bare wire (Gerig #58).

Regarding Claims 6 and 13, Gerig as modified teaches the conductor placed on the ground and connected to the high voltage output terminal is a bare wire covered by an electrically conductive thermoplastic material of higher resistivity than the bare wire (Beck Col. 3 line 25-34).

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Regarding Claims 7 and 14, Gerig as modified teaches the conductor placed on the ground and connected to the high voltage output terminal is a conductive shield on the outside of a cable (Beck #44 and 46).

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent No. 5,767,592; U.S. Patent No. 2,555,180; U.S. Patent No. 3,197,916; U.S. Patent No. 2,899,174; U.S. Patent No. 2,512,740; U.S. Patent No. 5,302,945; U.S. Patent No. 5,877,949; U.S. Patent No. 6,020,658; U.S. Patent No. 4,859,868; U.S. Patent No. 5,790,023; U.S. Patent No. 4,274,123; U.S. Patent No. 4,969,418; U.S. Patent No. 5,158,039; U.S. Patent No. 6,371,054; U.S. Patent No. 3,392,247; U.S. Patent No. 4,949,216; U.S. Patent No. 5,072,915; U.S. Patent No. 5,107,620; U.S. Patent No. 1,023,599; U.S. Patent No. 5,949,636; U.S. Patent No. 520,510; U.S. Patent No. 2,633,337; and United Kingdom Patent GB 2192323.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Andrea M. Valenti whose telephone number is 703-305-3010. The examiner can normally be reached on 7:30am-5pm M-F; Alternating Fridays Off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter M. Poon can be reached on 703-308-2574. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Under M. Volenti
Andrea M. Valenti
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29 September 2004

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